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Intellectual Property Law & Related Matters

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**FACSIMILE TRANSMISSION**

TO: USPTO  
Examiner Michelle Estrada; Art Unit 2823

FAX NO. (703) 872-9306

FROM: Ronald J. Corbett

RE: Serial No.: 10/803,244  
Attorney Docket No.: ABE 1-38-1-3  
LUCT-125886

DATE: July 7, 2005

PAGES: 5 (including cover page)

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**MESSAGE:**

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DOCKET NO. ABE 1-38-1-3

JUL 07 2005

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Zhenan Bao, *et al.*

Serial No.: 10/803,244

Filed: March 18, 2004

For: FORMING CLOSELY SPACED ELECTRODES

Group No.: 2823

Examiner: Michelle Estrada

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office (Fax No. (703) 872-9306) on July 7, 2005Marty Balke  
Printed or typed name of person signing the certificate7-7-05 Marty Balke  
Date of Mailing Signature of person mailing

Sir:

ELECTION OF CLAIMS

In response to the Official Action of June 8, 2005, Applicant hereby elects, without traverse,  
Claims 1-9 comprising Group I listed below and canceled claims 10-20.

**IN THE CLAIMS:**

1. (Original) An apparatus, comprising,  
a substrate having a planar surface  
first and second electrodes located on said planar surface, said first electrode having a top surface and a lateral surface, said lateral surface having an edge near or in contact with said substrate;  
an electrode insulating layer located on said top surface;  
a self-assembled layer located on said lateral surface; and  
wherein said second electrode is in contact with both said self-assembled layer and said electrode insulating layer.
2. (Original) The apparatus of claim 1, wherein said self-assembled layer comprises a stack of at least two self-assembled layers.
3. (Original) The apparatus of Claim 2, wherein said stack of self-assembled layers comprises an end group of a first organic molecule in a first self-assembled layer chemically coupled to an end group of a second organic molecule in a second self-assembled layer.
4. (Original) The apparatus of Claim 3, wherein said coupling between said end groups of said first and second organic molecules includes a copper bridge.
5. (Original) The apparatus of Claim 1, wherein said self-assembled layer comprises non-conductive organic molecules.

6. (Original) The apparatus of Claim 1, wherein said self-assembled layer comprises semiconductive organic molecules.

7. (Original) The apparatus of Claim 1, wherein said self-assembled layer is covalently bonded to said lateral surface.

8. (Original) The apparatus of Claim 1, wherein said self-assembled layer comprises a channel and said apparatus comprises an organic field effect transistor, wherein said channel has a charge mobility of at least about  $1 \times 10^{-3} \text{ V}^{-1} \text{ s}^{-1}$ .

9. (Original) The apparatus of Claim 1, wherein a footprint of said electrode insulating layer is substantially aligned with said top surface.

Claims 10-20 (Canceled)

The Applicant requests the Examiner to telephone the undersigned attorney of record at (972) 480-8800 if such would further or expedite the prosecution of the present application.

Respectfully submitted,

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Date: July 7, 2005

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